

NEAR POINT OF USE LASER WATER TREATMENT SYSTEMS AND METHODS

Abstract

Water treatment methods and systems using laser light. Water enters a treatment area from waterline tubing wherein water within the treatment area is subjected to light from a laser as it passes through the treatment area, and wherein microorganisms contained within said water are reactive to the light and are killed. The water is provided to a point of use after treatment by light. The treatment area may be a junction box having an entry point for receiving water from input tubing connected to the input portion of the junction box; a fiber optic line or laser source coupled to the junction box for delivery of light from a laser into the junction box; and an exit point and/or port for providing water passing through the junction box to a point of use.